

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 240 min. |
| Yield Strength in Mpa | 140 min. |
| Elongation in % | 1 min. |
| Reduction of Area in % | - |
| Hardness in HB | 70 min. |
| Impact in Joule | - |

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Material: UNI EN 1706 AC-47100

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: UNI EN 1706 Aluminium and Aluminium Alloys - Casting

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment |
|----------------------|------|-----------------|----------------|
| Copper | Cu % | 0.700 -1.200 | As-Cast |
| Iron | Fe % | 1.300 max. | |
| Magnesium | Mg % | 0.350 max. | |
| Manganese | Mn % | 0.550 max. | |
| Nickel | Ni % | 0.300 max. | |
| Silicon | Si % | 10.500 - 13.500 | |
| Lead | Pb % | 0.200 max. | |
| Tin | Sn % | 0.100 max. | |
| Titanium | Ti % | 0.200 max. | |
| Zinc | Zn % | 0.550 max. | |
| Chromium | Cr % | 0.100 max. | |
| Other | Ot% | 0.250 max. | |
| Aluminium | Al % | Balance | |
| - | - | - | |
| - | - | - | |

| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN AC-47100 | DIN | Germany | Casting |
| EN AC-47100 | BS | British | Casting |
| EN AC-47100 | ASME | USA | Casting |
| Al Si12Cu1(Fe) | ISO | International | Casting |
| EN AC-47100 | AFNOR NF | France | Casting |
| EN AC-47100 | UNE | Spain | Casting |
| EN AC-47100 | SFS | Finland | Casting |

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